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UNITED STATES PATENT AND TRADEMARK OFFICE

In re application:
FRANK CORDIALE
Serial No.: 09/731,637
Filed: 12/07/00
For: BRUSHLESS ELECTRIC MOTOR

Examiner: JUDSON JONES
Art Unit: 2834

#6/a
9/24/02
Hawkins
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TECHNOLOGY CENTER 2800

AMENDMENT

Box Fee Amendments
Commissioner For Patents
Washington, D.C. 20231

Dear Sir:

This Amendment is in response to the Office Action dated May 9, 2002. Enclosed please find a Petition For 1 Month Extension Of Time and check #2996 in the amount of \$55.00 for the Extension.

In the Claims
Marked up version

1. (Amended) A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston of spherical shape disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said energized windings, and at least one switch for controlling the energy flow in each of said copper filaments.
2. (Amended) [A prime mover as set forth in Claim 1] A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said energized windings, and at least one switch for controlling the energy flow in each of said copper filaments further comprising a permanent magnetic source for accelerating a reciprocation motion of said steel piston located at at least one end of said cylindrical framework.
3. (Amended) A prime mover as set forth in Claim 1[wherein said piston is spherical in shape] further comprising magnet means located at an axial extreme of said coil.
4. (Amended) A prime mover as set forth in Claim 2[1] wherein said piston is shaped in the cross section of said framework.
5. (Amended) A prime mover as set forth in Claim [1]2 wherein said prime mover further comprises a cylinder of non-magnetic material.
6. (Amended) [A prime mover as set forth in Claim 5] A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said energized windings, and at least one switch for controlling the energy flow in each of said copper filaments further comprising a cylinder of non-magnetic maerial wherein said non-magnetic material is brass.
7. (Amended) A prime mover as set forth in Claim [1]2 wherein said frame is a high temperature resistant polymer.
8. (Amended) A prime mover as set forth in Claim [1]2 wherein said switch comprises metal detection means for actuation.
9. (Amended) A prime mover as set forth in Claim [1]2 wherein said switch comprises means for reacting to a position of said piston to cause actuation of said switch.
10. (Amended) A prime mover as set forth in Claim [1]2 wherein said switch comprises timing means to time the actuation of said switch.